ABSTRACT

To ensure an output performance (EP) of a fuel cell stack (3) without providing excessive operation restriction, a controller (43) of a fuel cell system (1) is provided with: an operation restrictor (45) configured to restrict an operation of the stack (3) so that a delivered air temperature (T_2) of an air compressor (7) is kept from exceeding its upper limit (Lt) based on a sucked air temperature (T_1) detected by a temperature sensor (27) and an atmospheric pressure (P_0) detected by a pressure sensor (25), and configured to mitigate the restriction of the operation under a condition that drop of the sucked air temperature (T_1) is predicted; and an upper limit setter (47) configured to set an upper limit (Lp) of a delivered air pressure (P_2) of the air compressor (7) so that a temperature (T_2) of air delivered by the air compressor (7) is kept from exceeding its upper limit (Lt), based on the sucked air temperature (T_1) detected by the temperature sensor (27) and the atmospheric pressure (P_0) detected by the pressure sensor (25).